

RJ45 Surge Protection Device

RJ45-SPD Class E_A

Structured cabling with RJ45 connecting hardware is a vital part of today's telecommunication. 100 % uptime is mandatory for seamless data transmission with data rates up to 10 Gigabits per second. However, galvanic, inductive and capacitive coupling as well as potential differences may cause enormous problems and hazards for any electronics connected to such a network. To protect the electronic equipment, an appropriate RJ45 surge

protection with proper grounding has to be implemented in the cabling link. Telegärtner's RJ45-SPD surge protection meets or exceeds the requirements for class E_A networks for powerful high speed applications including 10 Gigabit Ethernet and PoE/PoE+. Its integrated protection against overbending the contacts ensures that the link will still work even after a RJ11 or RJ12 connector had been plugged in.

Technical Data

Environment Requirements

| | |
|-----------------------|------------------|
| Operation temperature | -40° C to +70° C |
| Protection class | IP20 |

Connection

| | |
|---------------|----------------|
| IN / OUT | RJ45/RJ11/RJ12 |
| Mating cycles | ≥750 |
| DIN rail | TS35 |

Dimensions

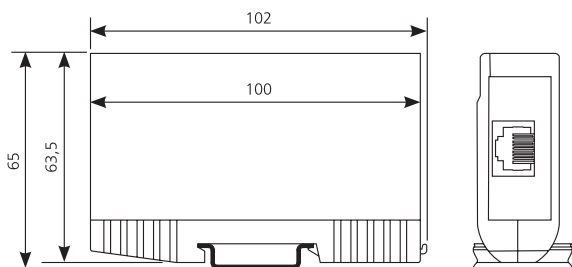
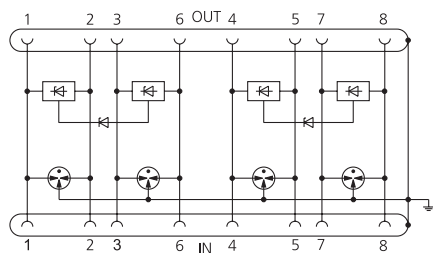
| | |
|-------------------|--------------|
| Hight/Width/Depth | 103/25/63 mm |
|-------------------|--------------|

Transmission Characteristics

| | |
|--|-------------------------------|
| Class E _A (Permanent/Channel Link) | ISO/IEC 11801, DIN EN 50173-1 |
| PoE / PoE+ | acc. to IEEE 802.3at |
| Surge protection | acc. to DIN EN 61643-21 |

Electrical Characteristics

| | |
|--|--------------------------------|
| Max. continuous operating voltage U _c | ≤ 3,3 V DC (60VDC/POE+) |
| Nominal current I _n | ≤ 1,5 A (25 °C) |
| Nominal discharge surge current (8/20)µs; core-core / core-ground | 100 A / 2 kA |
| Protection level U _p core-core / core-ground | ≤ 9 V (B2-1 kV/25 A) / ≤ 600 V |



| Order no. | Description | Remarks |
|-------------|-------------------------------|-------------------------------|
| J00029A0116 | RJ45-SPD Class E _A | suitable for RJ45/11/12 plugs |